

## EAST Search History

| Ref # | Hits | Search Query  | DBs                          | Default Operator | Plurals | Time Stamp          |
|-------|------|---|------------------------------|------------------|---------|---------------------|
| S1    | 1    | "7069025".pn.   | US-PGPUB;<br>USPAT           | OR               | ON      | 2007/11/20<br>13:50 |
| S2    | 16   | ("5119104"  <br>"5150310"  <br>"5365516"  <br>"5525081"  <br>"5526357"  <br>"5596330"  <br>"5764188"  <br>"5890068"  <br>"6121926"  <br>"6127976"  <br>"6150921"  <br>"6268723"  <br>"6308428"  <br>"6317082"  <br>"6459704").PN. OR<br>("7069025").URPN. | US-PGPUB;<br>USPAT;<br>USOCR | OR               | ON      | 2007/11/20<br>13:55 |
| S3    | 3299 | 455/456.1.ccls.   | US-PGPUB;<br>USPAT;<br>USOCR | OR               | ON      | 2007/11/20<br>13:55 |
| S4    | 653  | 455/456.2.ccls.   | US-PGPUB;<br>USPAT;<br>USOCR | OR               | ON      | 2007/11/20<br>13:55 |
| S5    | 813  | 455/456.3.ccls.   | US-PGPUB;<br>USPAT;<br>USOCR | OR               | ON      | 2007/11/20<br>13:55 |
| S6    | 693  | 455/456.5.ccls.   | US-PGPUB;<br>USPAT;<br>USOCR | OR               | ON      | 2007/11/20<br>13:56 |
| S7    | 593  | 455/456.6.ccls.   | US-PGPUB;<br>USPAT;<br>USOCR | OR               | ON      | 2007/11/20<br>13:56 |
| S8    | 2683 | 455/67.11.ccls.   | US-PGPUB;<br>USPAT;<br>USOCR | OR               | ON      | 2007/11/20<br>13:56 |
| S9    | 7289 | S3 S4 S5 S6 S7 S8   | US-PGPUB;<br>USPAT;<br>USOCR | OR               | ON      | 2007/11/21<br>11:44 |
| S10   | 25   | S9 and ((leading<br>adj edge) and<br>correlation)   | US-PGPUB;<br>USPAT;<br>USOCR | OR               | ON      | 2007/11/21<br>10:05 |

|     |      |  |                              |    |    |                     |
|-----|------|--|------------------------------|----|----|---------------------|
| S11 | 1155 | S9 and (correlation)   | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2007/11/20<br>14:50 |
| S12 | 309  | S11 and ((sn (signal near2 noise)) near ratio)                         | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2007/11/20<br>15:56 |
| S13 | 29   | S12 and (dual near mode)   | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2007/11/20<br>14:54 |
| S14 | 4    | eric near2 rush  | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2007/11/20<br>15:57 |
| S16 | 26   | ping near2 hsieh   | USPAT                        | OR | ON | 2007/11/20<br>15:58 |
| S17 | 0    | S16 and "455"/\$. ccls.  | USPAT                        | OR | ON | 2007/11/20<br>15:58 |
| S18 | 0    | S16 and "455". clas.   | USPAT                        | OR | ON | 2007/11/20<br>15:59 |
| S19 | 18   | mccrady near dennis  | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2007/11/20<br>17:45 |
| S20 | 0    | S9 and (dradient same ((leading near2 edge) toa (time near2 arrival))) | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2007/11/20<br>17:46 |
| S21 | 6    | S9 and (gradient same ((leading near2 edge) toa (time near2 arrival))) | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2007/11/21<br>10:09 |
| S22 | 1    | 10/580497.app.   | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2007/11/20<br>18:03 |
| S23 | 1    | "5764686".pn.  | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2007/11/21<br>10:05 |
| S24 | 3299 | 455/456.1.ccls.  | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2007/11/21<br>10:09 |
| S25 | 653  | 455/456.2.ccls.  | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2007/11/21<br>10:09 |
| S26 | 813  | 455/456.3.ccls.  | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2007/11/21<br>10:09 |

|     |        |   |                              |    |    |                     |
|-----|--------|---|------------------------------|----|----|---------------------|
| S27 | 693    | 455/456.5.ccls.                                       | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2007/11/21<br>10:09 |
| S28 | 593    | 455/456.6.ccls.                                       | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2007/11/21<br>10:09 |
| S29 | 2683   | 455/67.11.ccls.                                       | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2007/11/21<br>10:09 |
| S30 | 7289   | S24 S25 S26 S27<br>S28 S29                            | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2007/11/21<br>10:09 |
| S31 | 4      | S30 and (gradient<br>with threshold)                  | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2007/11/21<br>10:11 |
| S32 | 87     | S30 and gradient                                      | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2007/11/21<br>10:15 |
| S33 | 578    | (leading near<br>edge) with<br>gradient               | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2007/11/21<br>10:17 |
| S34 | 220314 | S30 an S33  | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2007/11/21<br>10:16 |
| S35 | 1      | S30 and S33   | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2007/11/21<br>10:16 |
| S36 | 95     | ((time near2 arriv<br>\$3) toa tdoa) with<br>gradient | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2007/11/21<br>10:22 |
| S37 | 118    | ((time near3 arriv<br>\$3) toa tdoa) with<br>gradient | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2007/11/21<br>10:22 |
| S38 | 3299   | 455/456.1.ccls.                                       | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2007/11/21<br>11:44 |
| S39 | 653    | 455/456.2.ccls.                                       | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2007/11/21<br>11:44 |
| S40 | 813    | 455/456.3.ccls.                                       | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2007/11/21<br>11:44 |
| S41 | 693    | 455/456.5.ccls.                                       | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2007/11/21<br>11:44 |

|     |      |  |                              |    |    |                     |
|-----|------|--|------------------------------|----|----|---------------------|
| S42 | 593  | 455/456.6.ccls.  | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2007/11/21<br>11:44 |
| S43 | 2683 | 455/67.11.ccls.  | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2007/11/21<br>11:44 |
| S44 | 7289 | S38 S39 S40 S41<br>S42 S43   | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2007/11/21<br>11:44 |
| S45 | 7289 | S44  | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2007/11/21<br>11:44 |
| S46 | 1619 | S45 and (toa tdoa<br>(time near3 arriv<br>\$3))  | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2007/11/21<br>11:45 |
| S47 | 1478 | S46 and ((determin<br>\$5 calculat\$3<br>estimat\$3) with<br>(location position))  | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2007/11/21<br>11:46 |
| S48 | 613  | ((toa tdoa (time<br>near3 arriv\$3))<br>and ((determin\$5<br>calculat\$3 estimat<br>\$3) with (location<br>position))).ab. | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2007/11/21<br>11:47 |
| S49 | 221  | S48 and threshold  | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2007/11/21<br>11:48 |
| S50 | 54   | S49 and S45  | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2007/11/21<br>11:48 |
| S51 | 3553 | 455/456.1.ccls.  | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2008/04/13<br>10:04 |
| S52 | 703  | 455/456.2.ccls.  | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2008/04/13<br>10:04 |
| S53 | 884  | 455/456.3.ccls.  | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2008/04/13<br>10:04 |
| S54 | 734  | 455/456.5.ccls.  | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2008/04/13<br>10:04 |
| S55 | 627  | 455/456.6.ccls.  | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2008/04/13<br>10:04 |

|     |      |  |                              |    |    |                     |
|-----|------|--|------------------------------|----|----|---------------------|
| S56 | 2797 | 455/67.11.ccls.  | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2008/04/13<br>10:04 |
| S57 | 7723 | S51 S52 S53 S54<br>S55 S56                                     | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2008/04/13<br>10:04 |
| S58 | 25   | S57 and ((leading<br>near edge) and<br>correlation)            | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2008/04/13<br>10:04 |
| S59 | 864  | S57 and ((snr<br>(signal near2<br>noise)) near ratio)          | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2008/04/13<br>10:06 |
| S60 | 8    | S58 and ((snr<br>(signal near2<br>noise)) near ratio)          | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2008/04/13<br>10:11 |
| S61 | 1    | "5764686".pn.  | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2008/04/13<br>14:59 |
| S62 | 3553 | 455/456.1.ccls.  | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2008/04/14<br>16:39 |
| S63 | 703  | 455/456.2.ccls.  | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2008/04/14<br>16:39 |
| S64 | 884  | 455/456.3.ccls.  | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2008/04/14<br>16:39 |
| S65 | 734  | 455/456.5.ccls.  | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2008/04/14<br>16:39 |
| S66 | 627  | 455/456.6.ccls.  | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2008/04/14<br>16:39 |
| S67 | 2797 | 455/67.11.ccls.  | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2008/04/14<br>16:39 |
| S68 | 7723 | S62 S63 S64 S65<br>S66 S67                                     | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2008/04/14<br>16:39 |
| S69 | 33   | S68 and ((leading<br>near edge) and<br>(time near2<br>period)) | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2008/04/14<br>16:39 |

|     |     |   |                        |    |    |                  |
|-----|-----|---|------------------------|----|----|------------------|
| S70 | 3   | S68 and (((leading near edge) and (transmit near2 period)))   | US-PGPUB; USPAT; USOCR | OR | ON | 2008/04/14 16:41 |
| S71 | 130 | S68 and (((leading near edge) toa) same ((reduc\$3 decreas\$3) (window interval period)))   | US-PGPUB; USPAT; USOCR | OR | ON | 2008/04/14 16:59 |
| S72 | 7   | S68 and (((leading near edge) toa) same ((reduc\$3 decreas\$3) with (window interval period)))  | US-PGPUB; USPAT; USOCR | OR | ON | 2008/04/14 17:11 |
| S73 | 53  | S68 and (((leading near edge) toa) and ((reduc\$3 decreas\$3) with (window interval period)))   | US-PGPUB; USPAT; USOCR | OR | ON | 2008/04/14 17:12 |
| S74 | 719 | (((leading near edge) toa) same ((reduc\$3 decreas \$3) with (window interval period)))   | USPAT                  | OR | ON | 2008/04/14 18:34 |
| S75 | 42  | S74 and ("455". clas. "375".clas. "370".clas.)  | USPAT                  | OR | ON | 2008/04/14 18:35 |
| S76 | 34  | (((leading near edge) toa) same ((reduc\$3 decreas \$3) with next with (window interval period)))   | USPAT                  | OR | ON | 2008/04/14 18:37 |
| S77 | 17  | (((leading near edge) toa) and ((reduc\$3 decreas \$3) with next with (window interval period))) and ("455".clas. "375". clas. "370".clas.) | USPAT                  | OR | ON | 2008/04/14 18:42 |

|     |      |  |                        |    |    |                  |
|-----|------|--|------------------------|----|----|------------------|
| S78 | 44   | ((leading near edge) toa) and ((reduc\$3 decreas \$3) with next with (time window interval period))) and ("455".clas. "375".clas. "370".clas.) | USPAT                  | OR | ON | 2008/04/14 18:48 |
| S79 | 0    | 10/580497.app.   | USPAT                  | OR | ON | 2008/04/14 18:58 |
| S80 | 1    | 10/580497.app.   | US-PGPUB; USPAT        | OR | ON | 2008/04/14 18:58 |
| S81 | 414  | (leading near edge) with (zero near crossing)  | US-PGPUB; USPAT        | OR | ON | 2008/04/14 19:11 |
| S82 | 35   | S81 and ("455". clas. "375".clas. "370".clas.)   | USPAT                  | OR | ON | 2008/04/14 19:11 |
| S83 | 1    | 11/253827.app.   | US-PGPUB; USPAT        | OR | ON | 2008/04/15 09:05 |
| S84 | 3797 | 455/456.1.ccls.  | US-PGPUB; USPAT; USOCR | OR | ON | 2008/09/23 12:06 |
| S85 | 769  | 455/456.2.ccls.  | US-PGPUB; USPAT; USOCR | OR | ON | 2008/09/23 12:06 |
| S86 | 984  | 455/456.3.ccls.  | US-PGPUB; USPAT; USOCR | OR | ON | 2008/09/23 12:06 |
| S87 | 775  | 455/456.5.ccls.  | US-PGPUB; USPAT; USOCR | OR | ON | 2008/09/23 12:06 |
| S88 | 683  | 455/456.6.ccls.  | US-PGPUB; USPAT; USOCR | OR | ON | 2008/09/23 12:06 |
| S89 | 2959 | 455/67.11.ccls.  | US-PGPUB; USPAT; USOCR | OR | ON | 2008/09/23 12:06 |
| S90 | 8268 | S84 S85 S86 S87 S88 S89  | US-PGPUB; USPAT; USOCR | OR | ON | 2008/09/23 12:06 |
| S91 | 502  | S90 and (snr (signal near noise) with threshold)   | US-PGPUB; USPAT        | OR | ON | 2008/09/23 12:06 |

|      |      |  |                        |    |    |                  |
|------|------|--|------------------------|----|----|------------------|
| S92  | 135  | S90 and ((snr (signal near noise)) with threshold)   | US-PGPUB; USPAT        | OR | ON | 2008/09/23 12:07 |
| S93  | 2    | (leading near edge near gradient) with threshold   | US-PGPUB; USPAT        | OR | ON | 2008/09/23 15:25 |
| S94  | 85   | (leading near edge near gradient)  | US-PGPUB; USPAT        | OR | ON | 2008/09/23 15:26 |
| S95  | 2    | (leading near edge near gradient) and ("375".clas. "455". clas.)   | US-PGPUB; USPAT        | OR | ON | 2008/09/23 15:27 |
| S96  | 4022 | 455/456.1.ccls.  | US-PGPUB; USPAT; USOCR | OR | ON | 2009/02/11 11:20 |
| S97  | 833  | 455/456.2.ccls.  | US-PGPUB; USPAT; USOCR | OR | ON | 2009/02/11 11:20 |
| S98  | 1053 | 455/456.3.ccls.  | US-PGPUB; USPAT; USOCR | OR | ON | 2009/02/11 11:20 |
| S99  | 815  | 455/456.5.ccls.  | US-PGPUB; USPAT; USOCR | OR | ON | 2009/02/11 11:20 |
| S100 | 722  | 455/456.6.ccls.  | US-PGPUB; USPAT; USOCR | OR | ON | 2009/02/11 11:20 |
| S101 | 3095 | 455/67.11.ccls.  | US-PGPUB; USPAT; USOCR | OR | ON | 2009/02/11 11:20 |
| S102 | 8741 | S96 S97 S98 S99 S100 S101  | US-PGPUB; USPAT; USOCR | OR | ON | 2009/02/11 11:20 |
| S103 | 9516 | S102 455/404.2.ccls. 455/414.2.ccls.   | US-PGPUB; USPAT; USOCR | OR | ON | 2009/02/11 11:20 |
| S104 | 1446 | S103 and ((measur \$5 detect\$3 estimat \$3 determin\$6) with (toa (time near2 arriv\$3) (first adj path) los (line adj of adj sight) (earliest adj3 time))) | US-PGPUB; USPAT; USOCR | OR | ON | 2009/02/11 11:25 |



|      |        |  |                              |    |    |                     |
|------|--------|--|------------------------------|----|----|---------------------|
| S105 | 411    | S103 and ((measur<br>\$5 detect\$3 estimat<br>\$3 determin\$6)<br>with (toa (time adj<br>of adj arriv\$3) (line<br>adj of adj sight))) | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2009/02/11<br>11:28 |
| S106 | 1      | "5764686".pn.  | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2009/02/11<br>13:28 |
| S107 | 1      | 10/580497.app.   | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2009/02/11<br>15:01 |
| S108 | 184934 | leading adj edge   | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2009/02/11<br>16:14 |
| S109 | 249    | (leading adj edge)<br>near3 gradient   | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2009/02/11<br>16:14 |
| S110 | 2      | S109 and ("455".<br>clas. "375".clas.)   | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2009/02/11<br>16:14 |
| S111 | 625    | (leading adj edge)<br>with gradient  | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2009/02/11<br>16:16 |
| S112 | 7      | S111 and ("455".<br>clas. "375".clas.)   | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2009/02/11<br>16:16 |
| S113 | 126    | airport and<br>455/41.2.ccls.  | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2009/02/11<br>17:39 |
| S114 | 6      | airport and<br>455/41.2.ccls. and<br>silent  | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2009/02/11<br>17:39 |
| S115 | 4      | air and 455/41.2.<br>ccls. and silent adj<br>mode  | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2009/02/11<br>17:40 |
| S116 | 4      | movie and<br>455/41.2.ccls. and<br>silent adj mode   | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2009/02/11<br>17:41 |

2/12/2009 9:39:42 AM

C:\Documents and Settings\phsieh\My Documents\EAST\Workspaces\10580497.wsp